

METHOD FOR ESTIMATING A PITCH ESTIMATION OF THE SPEECH SIGNALS

Abstract

A method for calculating a pitch estimation of a speech signal that uses a voice processor. The speech signal includes a plurality of speech data and the method includes the following steps: (a) determining a pitch upper bound and a pitch lower bound of the speech signals according to speech signals and the pitch range corresponding to the speech signals stored in a database; (b) calculating a lower bound of a lag parameter and an upper bound of the lag parameter according to the pitch upper bound and the pitch lower bound of the speech signals; (c) calculating the autocorrelation values of the speech signals according to a plurality of the lag parameters between the upper bound and lower bound of the lag parameter; and (d) comparing the autocorrelation values and selecting the largest value and using the lag parameter corresponding to the largest autocorrelation value to calculate the pitch estimation of the speech signals.